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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/976,538	10/12/2001	Michael P. McLeod	7504-80241	1515	
7590 12/03/2003		EXAMINER			
Welsh & Katz, Ltd. Jon P. Christensen			OROPEZA, FRANCES P		
22nd Floor	icii		ART UNIT	PAPER NUMBER	
120 South Riverside Plaza			3762		
Chicago, IL 60606			DATE MAILED: 12/03/200	DATE MAILED: 12/03/2003	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/976,538	MCLEOD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Frances P. Oropeza	3762				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with t	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	. 136(a). In no event, however, may a reply possible the statutory minimum of thirty (30 d will apply and will expire SIX (6) MONTHS at the cause the application to become ABANI	be timely filed O) days will be considered timely. If from the mailing date of this communication. DONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 10/	/12/01 (Initial Filing).					
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examination 10) The drawing(s) filed on <u>06 February 2002</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the large transfer of the second	are: a) \square accepted or b) \square objusted or by accepted in abeyance. Section is required if the drawing(s)	See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the pr application from the International Bure * See the attached detailed Office action for a lis 13) Acknowledgment is made of a claim for domes since a specific reference was included in the finance of the translation of the foreign language pr 14) Acknowledgment is made of a claim for domes reference was included in the first sentence of	nts have been received. Ints have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)). Ints of the certified copies not receive priority under 35 U.S.C. § 10 first sentence of the specification or a specification of the specification or a specification	lication No ceived in this National Stage seived. 19(e) (to a provisional application) on or in an Application Data Sheet. 120 and/or 121 since a specific				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of Infor	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In lines 1-2 of claims 12-14, "the acquisition unit" lacks antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Rohde (US 5876351). Rohde discloses a portable modular ECG monitoring device with an LCD display (20) with sufficient resolution to display waveforms. The sensed cardiac signals are inherently intrinsic beats or pace/ shock beats as these signal are all sensed when monitoring an ECG (abstract; figure 2(a); col. 4 @ 46-67; col. 5 @ 18-21 and 41-43; col. 6 @ 51-54).

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint Inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the Examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. The Applicant is advised of the obligation under 37 CFR 1.56 to point out the Inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rohde (US 5876351) in view of Skelton et al. (US 6292692). As discussed in paragraph 3 of this action, Rohde discloses the claimed invention except for the screen being a touch screen interface.

Skelton et al. teach communications interface using a touch screen for the purpose of making input selection known to a controller/microprocessor. Absent any teachings of criticality of unexpected results, merely changing the input means from a joypad and control buttons to a touch screen interface would be an obvious design choice.

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6. Claims 6-12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rohde (US 5876351) in view of Rockwell et al. (US 6141584). As discussed in paragraph 4 of this action, Rohde discloses the claimed invention except for: a read only memory card (claims 6 and 7), wireless communication using an infrared transceiver (claim 8) or a radio frequency transceiver (claim 9), an audio recording unit (claim 10), signal conditioning circuits (claim 11), a "baseline sway filter" (claim 12) and signal analysis and interpretation (claim 14).

As to a memory card, Rockwell et al. teaches data storage using a read only memory card for the purpose of recording the ECG and audio data in memory. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used the read only memory card in the Rohde system in order to provide a mechanism enabling the collected data to be reviewed and analyzed at a future time (col. 11 @ 3-16).

As to wireless communication, Rockwell et al. teach wireless communication using infrared and radio frequency communication signals for the purpose of conveying information to remote locations. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used infrared and radio frequency signals in the Rohde system in order to enable sharing of information and report generation to optimize the patient's treatment (col. 5 @ 2-17).

As to an audio unit, Rockwell et al. teach event recording using an audio unit for the purpose of documenting events associated with patient interaction and care. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used an audio unit in the Rohde system in order to provide a more comprehensive understanding of the

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patient's condition and the treatment afforded the patient so the events are accurately reconstructed (col. 10 @ 1-9)

As to signal conditioning and filtering, Rockwell et al. teach signal conditioning using an amplifier, filter (read as a baseline sway filter), A /D converter for the purpose of optimizing the quality of the signal. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used signal conditioning including baseline sway filtering in the Rohde system in order to eliminate signal artifact, making the cardiac signals distinct so they can be more easily interpreted (col. 10 @ 46-49).

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As to signal analysis, Rockwell et al. teach cardiac signal evaluation using signal analysis for the purpose of detecting the cardiac rhythm of the heart. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used signal analysis in the Rohde system in order to alert the user to cardiac condition, so conditions such as ventricular tachycardia requiring immediate medical attention can be identified and treated (col. 10 @ 49-51).

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fran Oropeza, telephone number is (703) 605-4355. The Examiner can normally be reached on Monday – Thursday from 6 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Angela D. Sykes can be reached on (703) 308-5181. The fax phone number for the

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organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist at telephone number (703) 308-0858.

Frances P. Oropeza Patent Examiner Art Unit 3762 11/30/02

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angel D. Ahr

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